

**What is Claimed**

**Independant Claim 1.)** The invention creates a new method and mechanism of vertical propulsion. It circulates matter, within the confine of a machine, at velocities above that required for circular orbit of the planet, for the purpose of utilizing whatever portion of particle radial acceleration, relative to the planet center, that can be harnessed toward creating vertical propulsion for the entire machine.

**Independant Claim 2.)** The invention creates a new secondary method and mechanism of propulsion, which is to alternate the acceleration and deceleration of circulatory matter in such manner as to establish a directional component that may be applied to acceleration in a horizontal direction relative to the ship.